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APPLICATION NO.	F.	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/749,302	10/749,302 12/31/2003		Chandrasekaran N. Gupta	X-1439 US	1788	
24309	7590	10/03/2006		EXAMINER		
XILINX, IN			CHANG, ERIC			
ATTN: LEG 2100 LOGIC		ARTMENT	ART UNIT	PAPER NUMBER		
SAN JOSE,		24	2116			
			· .	DATE MAILED: 10/03/2000	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/749,302	GUPTA ET AL.			
	Office Action Summary	Examiner	Art Unit	 		
		Eric Chang	2116			
Period fo	The MAILING DATE of this communication a or Reply	appears on the cover sheet v	vith the correspondence address	ss		
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPORTED FOR REPORTED STATUTORY PERIOD FOR REPORTED FOR INC. CHEVER IS LONGER, FROM THE MAILING INSIDE IN THE MAILING INSIDE IN THE MAILING I	DATE OF THIS COMMUN 1.136(a). In no event, however, may a lod will apply and will expire SIX (6) MO tute, cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this commuNBANDONED (35 U.S.C. § 133).			
Status						
2a) <u></u>	Responsive to communication(s) filed on 21 This action is FINAL . 2b) T Since this application is in condition for allow closed in accordance with the practice under	his action is non-final. wance except for formal ma	• •	erits is		
Dispositi	on of Claims					
5)□ 6)⊠ 7)□ 8)□	Claim(s) <u>8-20</u> is/are pending in the applicating the above claim(s) is/are with definition of the above claim(s) is/are with description of the above claim(s) is/are allowed. Claim(s) <u>8-20</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and on Papers	rawn from consideration.				
· <u> </u>	The specification is objected to by the Exami The drawing(s) filed on is/are: a) _ a Applicant may not request that any objection to the Replacement drawing sheet(s) including the corr	ccepted or b) objected to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	.121(d).		
11) 🗌	The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-1	152.		
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2)	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application 			

Art Unit: 2116

DETAILED ACTION

1. Claims 8-20 are pending.

Claim Rejections - 35 USC § 112

2. Claim 20 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear what is meant by the phrase "storage device enabled responsive to output of the receive portion". Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 8-20 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent 6,941,433 to Libby et al.
- 5. As to claim 8, Libby discloses a delay compensation system, comprising: a first integrated circuit [105], the first integrated circuit including output drivers, one of the output drivers configured to provide a transmit clock signal and another of the output drivers configured

Art Unit: 2116

to provide a read command signal [FIG. 1]; and a second integrated circuit [110] coupled to the first integrated circuit to receive the transmit clock signal and the read command signal, the second integrated circuit configured to provide a read clock signal responsive to the transmit clock signal and to provide a data signal responsive to the read command signal [FIG. 1]; the first integrated circuit including a delay compensation circuit, the delay compensation circuit [205] configured to operate synchronously with the transmit clock signal for a send portion and to operate synchronously with the read clock signal on a receive portion. [col. 1, lines 57-64].

- 6. As to claim 9, Libby discloses the delay compensation circuit comprises a counter configured to count clock pulses to track latency of the second integrated circuit [col. 4, lines 57-65].
- 7. As to claim 10, Libby discloses the send portion and the receive portion are coupled to one another via a loopback trace [FIG. 2, and col. 3, lines 40-49].
- 8. As to claim 11, Libby discloses the circuits are mounted to a printed circuit board and coupled by traces [col. 1, lines 33-37].
- 9. As to claim 12, Libby discloses the send portion and the receive portion are coupled to one another via a loopback trace [FIG. 2, and col. 3, lines 40-49].

Art Unit: 2116

10. As to claim 13, Libby discloses the first circuit is conventional data processing system [col. 1, lines 8-15]. It is well known in the art that a FPGA is a conventional data processing system that uses random access memories.

- 11. As to claim 14, Libby discloses the second circuit is a memory [110].
- 12. As to claim 15, Libby discloses the transmit clock signal is generated using a first clock signal [150] and the read command signal is generated using a second clock signal [245].
- 13. As to claim 16, Libby discloses the first clock is used to clock the send portion [col. 3, lines 29-60].
- 14. As to claims 17-18, Libby discloses the first and second clock and clock pulses are separate signals from a same clock source [col. 1, lines 24-29]. Furthermore, it is well known in the art that data processing systems use digital clocks.
- 15. As to claim 19, Libby discloses the first clock is a phase-shifted version of the second clock signal [col. 3, lines 47-52 and col. 5, lines 2-4].
- 16. As to claim 20, Libby discloses the first circuit comprises at least one storage device responsive to the output of the receive portion [210].

Art Unit: 2116

Conclusion

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Chang whose telephone number is (571) 272-3671. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne Browne can be reached on (571) 272-3670. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

September 26, 2006

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100